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| wore<br>Occa<br>and<br>a So                         | mist China. From 8 to 16 complete aircraft and the pertinent spare parts leaded on one twain. The remainder were flown to some unknown destination. tonally individual railroad cars were leaded with air frame parts agines and sent to various places in the W.S.S.R. 25) tet sergeant that approximately 2,000 aircraft per year tere delivered a plant to various air units. (5)   | <b>X</b> 1 |
|---|--|------------|
| off<br>An a<br>depa<br>dray<br>Alur<br>rail<br>stru | Is on production methods were not available since the assembly hall was mits and the other workshops were seen only for short periods of time, sombly line was noticed in one of the workshops. In the acid bath ment, it was observed that the sheet aluminum for the outer skin was through all eight acid baths and then placed in a water bath, was scrap was east into ingots in the smelter and then shipped out by Indicator devices for instrument boards, control sticks, shock-absorbing and brake systems as well as tire gauges, were seen in the instruments ouse. The duralumin shoets were 5-mm to 5-mm thick.  |            |
| of the arrival instance the VEB                     | ing rail shipments included double-row, radial engines, duralumin sheets, ich about four railroad cars arrived daily, and aluminum parts from orthern Ural. Shock-absorbing struts, propellers, and control sticks ad irregularly, mostly in shipments of 100 units. Aircraft measuring in ints and radio sets arrived by air. As far as could be remembered, the were lettered Stalina Instrument Plant, heningrad. The tires came from eviet Zone of Germany; the boxes were believed to have been lettered sechsische Gummiwerke (Saxon Rubber Plant, Nationalized Enterprise). If t seats were delivered by  | X1         |
| Papil The Pavil Ward at i Whom 10,0 Only            | mager of the plant was a civilian who spoke good German. Chief engineer (fnu), was chief of all lumber yards and of all wood-working shops.  mestruction work was supervised by one Schwarzkopf, (fnu), and Igin th. Ivan Ivanovich Kurev, an ex-captain, was in charge of all the supply puges of the plant. Major Chevsbenkov, (fnu), was the party secretary e plant. Captain Churov (fnu), was one of the three test pilots with course was on friendly terms. Shurov was given a monthly salary of e rubles. Two German engineers were also known to work at the plant. The name of one, Schindler, (fnu), was remembered. According to se, the plant had a work force of approximately 20,000 working three of. Sixty percent of the workers were women. |            |
| CARR  | ant was inspected almost daily. Yost of the inspection groups which row Moscow were composed of 10 persons, half of them civilians, and the half high-ranking officers.  |            |
| cont  | ant, surrounded by a heavily guarded board fence 2 motors high, had a of canouflage paint. No air defence measures or AA gar emplacements were the factory fire briade was equipped with eight modern motor pumps.   |            |
|   | Corrects   |            |
|   | In late  |            |
| Anne  | the clant produced to capacity, for layout sketch of the plant, see 1. The legend to Annex I. With was presumably given on the basis of laorial photograph, is not correct on all points. It was stated that   |            |

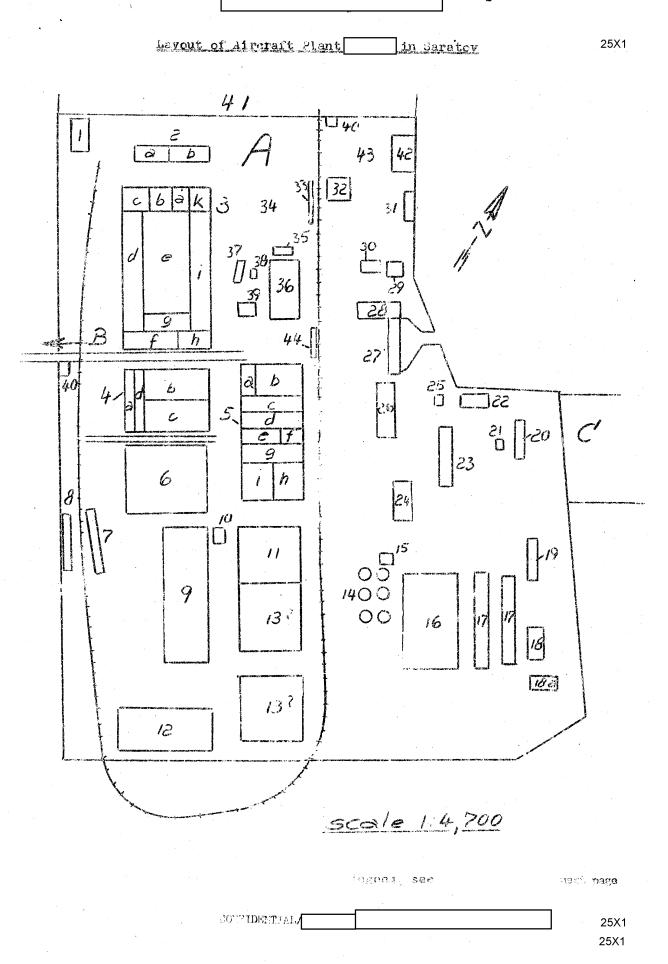
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|      | scrap smelting furnaces were located in the wing and fuselage assembly   |       |
|------|--|-------|
|      | department, item 5. According to previous reports, the building identified as  |       |
|      | No ll housed a foundry rather than the assembly hall. It is therefore believed   |       |
|      |  | 25X   |
|      | information furnished as to the purpose of the individual plant  | _0, ( |
|      | buildings appears to be superficial and not very factual.  |       |
| (2)  | For sketch of commercial aircraft, see Annex 2.  |       |
| (3)  | 10110 -1110 -111   |       |
| 4.23 |  | 25X   |
|      | The jet fighter reproduced in Annex 3 is believed to be a craft which made   |       |
|      | an intermediate landing at the factory field. It is not believed to have   |       |
|      | been manufactured at the plant. However, according to previous information   |       |
|      | the jet fighter with swept-back wings seems to have been built in quantity   |       |
| 71.5 | at the plant after 1949.   |       |
| (11) | A daily output of 12 aircraft in May 1948 appears improbable. According to   |       |
|      |  | 25X   |
|      | war and the production of a two-seater trainer was started in late 1947. It  |       |
|      | is believed that the monthly output did not exceed 180 aircraft in the summer  |       |
|      | of 1948. The type described is believed to be the Yak-20, previously designated  |       |
|      | Yak -11. This plane is fitted with an ASh-21, single-row, radial engine.   |       |
|      | For details of this fighter see Annexes 5, 6, 7 and 8.   |       |
| (5)  | This figure would support the assumption that the monthly output of the plant  |       |
|      | amounted to 160 to 170 aircraft.   |       |
| (6)  | Plants in Leningrad are known to manufacture radio sets for  |       |
| ٠.   | the Soviet Air force   |       |
|      | sche Gummiwerke does not exist; only a VEB Gummiwerke Riese, which might be  |       |
|      | concerned, is known. Thether aircraft tires are being manufactured at this   |       |
|      | plant is not known. According to wartime records, there was a machine tool   |       |
|      | factory under construction in addition to the ball bearing plant. From the   | •     |
|      | sketch it is believed that this factory is identical   |       |
|      | with the installation he called  | 25X   |
|      | The second secon | •     |

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|      | Legend   |                                |
|------|--|--------------------------------|
| 25X1 | A. Aircraft Plant  |                                |
|      | B. Road Leading to Airfield.   |                                |
| 25X1 | C. Plant   |                                |
|      |  |                                |
|      | 1. Beiler house with six natural gas-fired boilers.  |                                |
|      | 2. Forge   |                                |
|      | a. This department was equipped with seven compressed air harme conveyor belts;  | rs and ∂avo                    |
|      | b. This department was equipped with five all pas-fired annea three electric furnaces developing a heat of up to 2,000 °C and several small cutting presses  | ling furnaces<br>and one large |
|      | 3. Nachine Shop.   |                                |
|      | a. Lethe shore   |                                |
| ÷    | b. Lathe shop.   |                                |
| ,    | c. Lathe shop.   |                                |
|      | d. Autogenous welding shop with 60 welding stations.   |                                |
|      | e, Lathe department for small parts.   |                                |
|      | f. Annealing they equipped with 2h electric furnaces and all and baths.  | l weter                        |
|      | ge-Cupply varebouse.   |                                |
|      | h. Material testing department of the annealing shop.  |                                |
|      | ie Shaft turning shop.   |                                |
|      |  |                                |
|      | k. Small force for factory requirements.   |                                |
|      | The state of the s |                                |
|      | a. Section of workshop which was being built up. It was equipped<br>gas-burning ammealing furnaces and five portable electric aur<br>furnaces. Production there had not yet started.   | of the five                    |
| ,    | b. Section fitted with sand blost apparatus.   |                                |
|      | e. Autogenous welding section for bulkhead frames, with eight we<br>about 25 special rachives and two material testing stations f<br>X-ray apparatus.  | lding stations<br>itted with   |
|      | d. No details available.   |                                |
| -    | 5. wing and fuselage department.   |                                |
|      | a. Sight annealing baths, each of them about 5x3x1] reters   |                                |
|      |  |                                |
|      |  | 25X1                           |
| 25X1 | CCUUDENTIAL  |                                |

- b. Modification section.
- c = Fuselage section.
- d. sig section.
- e. Panufacture of vings or tail assemblies.
- f. Plexicless molding section.
- g. fanufacture of airframe parts.
- h. Scrap scelting furnaces.
- i. Punching shop for tanks and other accessories.
- 6. Workshop under construction.
- 7. Measuring instruments warehouse.
- $\delta_{\nu}$  Warehouse for duralumin sheets and engines. This was a wooden structure.
- 9. Workshop under construction.
- 10. Nater pool.
- 11. Aircraft assembly hall.
- 12. Workshop under construction.
- 13. Workshop under construction.
- 14. Six fuel tanks, about 8 meters high and 5 meters in diameter.
- 15. Fuel pump installation.
- 16. Foundations for a new workshop.
- 17. Storage facilities for lumber used in the manufacture of boxes and crates.
- 18. Storage facilities for tarpaper used in the manufacture of boxes and crates.
- 18a. Issuing office for lumber and tarpaper used in making crates.
- 19. Civilian factory; manufacture of kitchen goods, bicycles and mattresses.
- 20. Carpenter shop where crates were manufastured.
- 21. Sand drying plant.
- 22. Sewing of aircraft covers.
- 23. Oil dump and electric repair shop.
- 24. Chalk crushing mill and workshops.
- 25. Dugouts.

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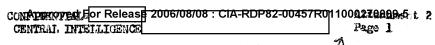
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- 26. Locksmith shop.
- 27. Main gate.
- 28. Administrative offices, a five-story building, with switchboard and radio control board.
- 29. Carage and side entrance.
- 30. Laboratory and X-ray shop.
- 31. Fire station.
- 32. Dugouts.
- 33. Loading ramp for shavings.
- 34. Scrap dump.
- 35. Laboratory.
- 36. Main warehouse for parachutes, flying suits and tools.
- 37. Engine storage facilities.
- 38 Square tower, 12 meters high.
- 39. Emergency power unit.
- 40. Guard houses.
- 41. Construction yard.
- 42. Tube warehouse.
- 43. Timber yard.

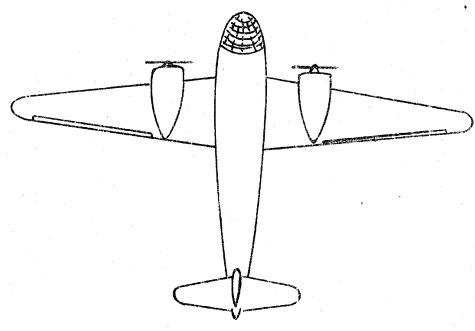
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44. Loading ramp for shipping of aircraft.

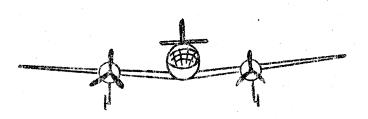
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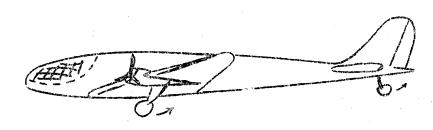
Twin-Engine Consercial Plane Scen in Saratov



Top view



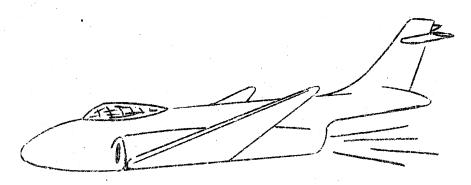
Front view



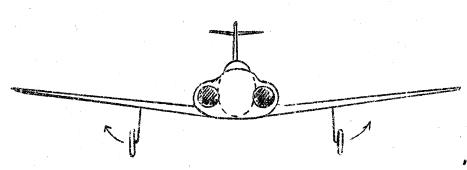
Side view

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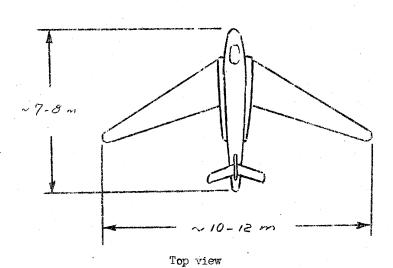
Jet Fighter as Seen in Saratov



Side view

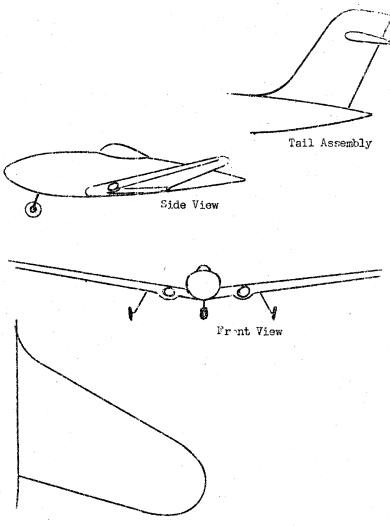


Front View

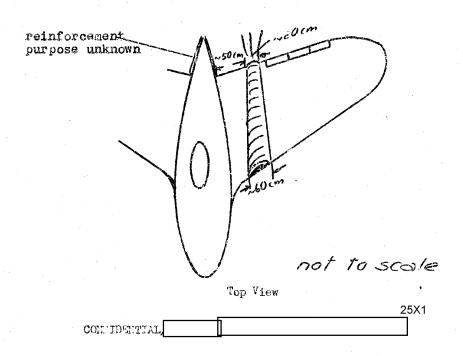


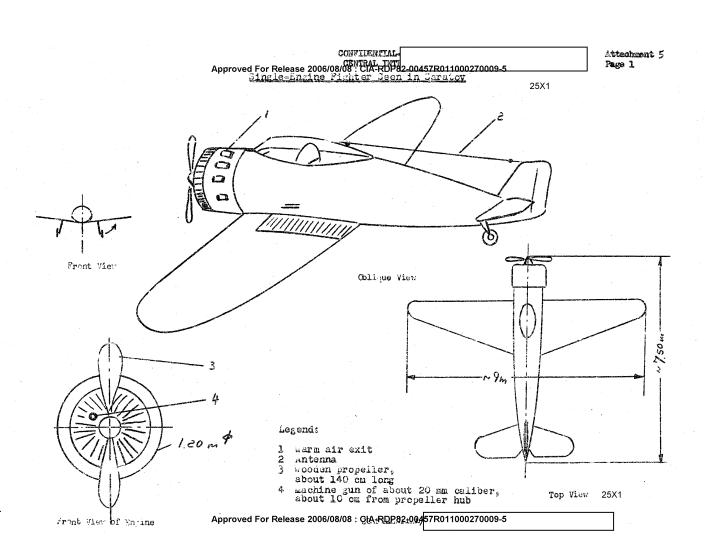
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Jet Fighter as Observed in Baratov after September 1949



Wing Shape

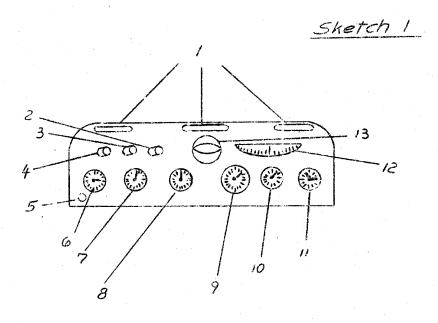




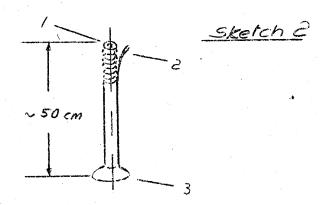
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Instrument Board of Jingle-Engine Fighter



# Control Stick of Single-Engine Fighter



### Legends

- l Locking device for machine gun trigger 2 Trigger release 3 Hollow spherical device

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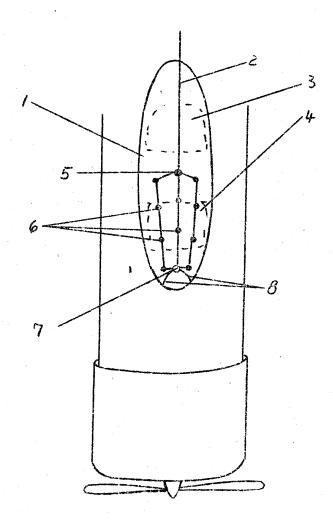
### Legend.

- l. Panel lights.
- 2. white lamp, presumably landing light.
- 3. Creen lamp for landing gear.
- 4. Red lamp for armament.
- 5. Push-pull button, no details available.
- 6. Cil pressure gauge.
- 7. Gasoline gauge.
- 8. Coarse altimeter.
- 9. Sensitive altimeter.
- 10. Airspeed indicator.
- 11. Instrument board clock.
- 12. Rpm indicator.
- 13. Presumably artificial horizon.

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### Legend.

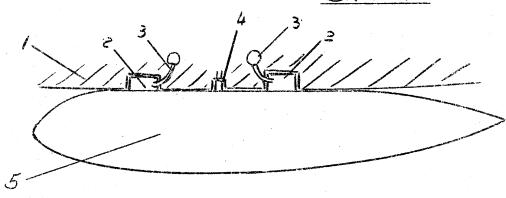
- l. Plexiglass cabin.
- 2 a Antonna
- 3. Mear pilot seat.
- 4, Forward pilot seate
- 5. Antenna socket and insulator,
- 6. Insulators.
- $7^{\circ}$  Hain insulator and lead-in to instrument board,
- $\vartheta_{\circ}$  Wires within the cabin; all other w res are fitted outside the cabin. The wires are 2 mm in diameter

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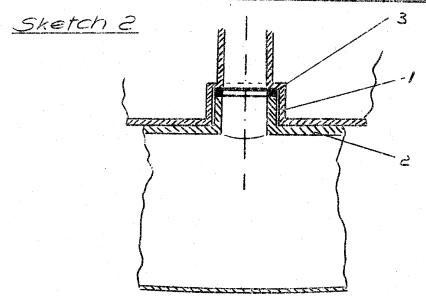
Detail Sketch of Auxiliary Tank of Single-Engine Fighter

Sketch /

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Detail Sketch of Connection of Auxiliary Fuel Tank



Legend: See next page.

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# Legend .

## Sketch 1:

- 1. Wing.
- 2. Dow frames.
- 3. Holding jacks.
- he Fuel outlete
- 5. Auxiliary tank.

### Sketch 2:

- 1. Wing.
- 2. Auxiliary tank.
- 3. Casketa

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|              |     |  |     |